

CLAIMS

WHAT IS CLAIMED IS:

- 1 1. A system for automatically setting a clock, comprising:
2 a mobile station configured for:
3 acquiring a Code Division Multiple Access (CDMA) pilot signal from a base
4 station,
5 receiving a CDMA sync channel message based on the pilot signal, and
6 calculating a local time based on the CDMA sync channel message; and
7 a resettable clock, coupled to the mobile station, including an oscillator for
8 maintaining a current time and a processor configured for:
9 periodically obtaining an indication of the local time from the mobile station, and
10 resetting the current time to reflect the local time obtained from the mobile
11 station.
- 1 2. The system according to claim 1, further comprising interface logic coupling the
2 mobile station and the resettable clock; wherein:
3 the mobile station is configured to operate at a first logic level;
4 the resettable clock is configured to operate at a second logic level that is
5 incompatible with the first logic level; and
6 the interface logic is configured to receive the indication of the local time at the first
7 logic level and provide the indication of the local time to the resettable clock at
8 the second logic level.

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1 8. The system according to claim 6, wherein the resettable clock includes a display
2 installed on a dashboard of the automobile for showing the current time and geographic
3 information.

1 9. The system according to claim 1, wherein the mobile station comprises a CDMA
2 compatible wireless telephone.

1 10. A system for automatically setting a clock, comprising:
2 a mobile station configured for:
3 resetting an indication of local time enable,
4 attempting to acquire a Code Division Multiple Access (CDMA) pilot signal from
5 a base station and receive a CDMA sync channel message based on the pilot
6 signal, and
7 if said attempting is successful, then calculating a local time based on the CDMA
8 sync channel message and setting the indication of local time enable; and
9 a resettable clock, coupled to the mobile station, including an oscillator for
10 maintaining a current time and a processor configured for:
11 periodically checking the indication of local time enable, and
12 if the indication of local time enable is set, then obtaining an indication of the
13 local time from the mobile station, and resetting the current time to reflect the
14 local time obtained from the mobile station.

1 11. A resettable clock comprising:
2 an oscillator;
3 an interface to a CDMA network compatible receiver; and
4 a processor coupled to the interface and configured for:
5 maintaining a current time based on output of the oscillator;
6 periodically obtaining an indication of local time for the interface to the CDMA
7 network compatible receiver; and
8 resetting the current to reflect the local time obtained from the interface to the
9 CDMA network compatible receiver.

1 16. The method according to claim 15, wherein the local time and the new local time
2 indicate local times in different time zones.

1 17. The method according to claim 13, further comprising using the CDMA sync
2 channel message to receive a transmission from the base station in a paging or traffic
3 channel.

1 18. The method according to claim 13, further comprising displaying the local time.

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1 19. A method for automatically setting a clock, comprising:
2 resetting an indication of local time enable;
3 attempting to acquire a Code Division Multiple Access (CDMA) pilot signal from a
4 base station and receive a CDMA sync channel message based on the pilot signal;
5 if said attempting is successful, then calculating a local time based on the CDMA
6 sync channel message and setting the indication of local time enable;
7 maintaining a current time based on an oscillator;
8 displaying the current time;
9 periodically checking the indication of local time enable; and
10 if the indication of local time enable is set, then obtaining an indication of the local
11 time from the mobile station, and resetting the current time to reflect the local
12 time obtained from the mobile station.

1 12. The resettable clock according to claim 11, wherein:
2 the CDMA network compatible receiver is configured to operate at a first logic level;
3 the resettable clock is configured to operate at a second logic level that is
4 incompatible with the first logic level; and
5 the interface is configured to receive the indication of the local time at the first logic
6 level and provide the indication of the local time to the resettable clock at the
7 second logic level.

1 13. A method for automatically setting a clock, comprising:
2 acquiring a Code Division Multiple Access (CDMA) pilot signal from a base station;
3 receiving a CDMA sync channel message based on the pilot signal;
4 calculating a local time based on the CDMA sync channel message;
5 maintaining a current time based on an oscillator;
6 periodically obtaining an indication of the local time; and
7 resetting the current time to reflect the local time.

1 14. The method according to claim 13, further comprising converting the indication
2 of the local time from a first logic level to a second logic level that is incompatible with
3 the first logic level.

1 15. The method according to claim 13, further comprising:
2 acquiring another CDMA pilot signal from another base station;
3 receiving another CDMA sync channel message based on the other CDMA pilot
4 signal;
5 calculating a new local time based on the other CDMA sync channel message; and
6 resetting the current time to reflect the new local time.